

## WHAT IS CLAIMED IS:

1. A glass wool molded product comprising a layered body of glass wools, characterized in that  
the layered body does not contain any binder,  
the layered body is needle punched in a direction orthogonal to a longitudinal direction of the wools thereof, so that the layered body is integrally formed,  
the wools have an average diameter of 3 to  $7\mu\text{m}$ , and  
each of the wools has a length between 10 and 200mm.
2. The glass wool molded product according to claim 1, wherein  
the molded product has a multilayer structure in the direction orthogonal to the longitudinal direction of the wools, and the average diameter of the wools of a first layer and that of the wools of a second layer differ from each other.
3. The glass wool molded product according to claim 1, wherein the molded product has a multilayer structure in the direction orthogonal to the longitudinal direction of the wools, and a density of a first layer and that of a second layer differ from each other.
4. The glass wool molded product according to any one of claims 1 through 3, wherein the molded product is a hexahedron, and a hardened layer of an inorganic type adhesive agent is formed on at least one of surfaces of the molded product.
5. The glass wool molded product according to any one of claims 1 through 4, wherein a density of the molded product is between  $70\text{kg/m}^3$  and  $110\text{kg/m}^3$ .
6. A method of molding a glass wool molded product, comprising:  
supplying a layered body of glass wools having an average diameter of 3 to  $7\mu\text{m}$  and a length between 10 and 200mm, said layered body including no binder,  
needle punching the layered body in a direction orthogonal to a

longitudinal direction of the wools, to molding the molded product,

applying an inorganic type adhesive agent to at least one of surfaces of the molded product, and

heat-setting the applied inorganic type adhesive agent.